TABLE III—REPORTED DATA ELEMENT FORMAT—Continued

Data element	Minimum range	Accuracy	Resolution
Seat track position switch, foremost, status, right front passenger.	Yes or No	N/A	Yes or No.
Occupant size driver occupant 5th female size (y/n).	Yes or No	N/A	Yes or No.
Occupant position size right front passenger child (y/n).	Yes or No	N/A	Yes or No.
Occupant position classification, driver oop (y/n).	Yes or No	N/A	Yes or No.
Occupant position classification, right front passenger oop (y/n).	Yes or No	N/A	Yes or No.
Multi-event, number of events (1, 2).	1 or 2	N/A	1 or 2.
Time from event 1 to 2	0 to 5.0 sec	0.1 sec	0.1 sec.
Complete file recorded (y/n)	Yes or No	N/A	Yes or No.

(b) Acceleration Time-History data and format: the longitudinal, lateral, and normal acceleration time-history data, as applicable, must be filtered either during the recording phase or during the data downloading phase to include:

(1) The Time Step (TS) that is the inverse of the sampling frequency of the acceleration data and which has units of seconds;

(2) The number of the first point (NFP), which is an integer that when multiplied by the TS equals the time relative to time zero of the first acceleration data point;

(3) The number of the last point (NLP), which is an integer that when multiplied by the TS equals the time relative to time zero of the last acceleration data point; and

(4) NLP—NFP + 1 acceleration values sequentially beginning with the acceleration at time NFP * TS and continue sampling the acceleration at TS increments in time until the time NLP * TS is reached.

[73 FR 2183, Jan. 14, 2008]

§ 563.9 Data capture.

The EDR must capture and record the data elements for events in accordance with the following conditions and circumstances:

(a) In a frontal or side air bag deployment crash, capture and record the current deployment data, up to two events. The memory for each air bag deployment event must be locked to prevent any future overwriting of these data.

(b) In a deployment event that involves another type of deployable restraint (e.g., pretensioners, knee bolsters, pedestrian protection, etc.), or in a non-deployment event that meets the trigger threshold, capture and record the current non-deployment data, up to two events, subject to the following conditions:

(1) If an EDR non-volatile memory buffer void of previous-event data is available, the current non-deployment event data is recorded in the buffer.

(2) If an EDR non-volatile memory buffer void of previous-event data is not available, the manufacturer may choose either to overwrite the previous non-deployment event data with the current non-deployment event data, or not to record the current non-deployment event data.

(3) EDR buffers containing previous deployment-event data must not be overwritten by the current non-deployment event data.

[73 FR 2184, Jan. 14, 2008]

§ 563.10 Crash test performance and survivability.

(a) Each vehicle subject to the requirements of S5, S14.5, S15, or S17 of 49 CFR 571.208, *Occupant crash protection*, must comply with the requirements in subpart (c) of this section when tested according to S8, S16, and S18 of 49 CFR 571.208.

(b) Each vehicle subject to the requirements of 49 CFR 571.214, *Side impact protection*, that meets a trigger threshold or has a frontal air bag deployment, must comply with the requirements of subpart (c) of this section when tested according to the conditions specified in 49 CFR 571.214 for a moving deformable barrier test.

(c) The data elements required by §563.7, except for the ''Engine throttle, percent full,'' ''engine RPM,'' and ''service brake, on/off,'' must be recorded in the format specified by §563.8, exist at the completion of the crash test, and be retrievable by the methodology specified by the vehicle manufacturer under §563.12 for not less than 10 days after the test, and the complete data recorded element must read ''yes'' after the test.

§563.11 Information in owner's manual.

(a) The owner's manual in each vehicle covered under this regulation must provide the following statement in English:

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

(b) The owner's manual may include additional information about the form, function, and capabilities of the EDR, in supplement to the required statement in §563.11(a).

§563.12 Data retrieval tools.

Each manufacturer of a motor vehicle equipped with an EDR shall ensure by licensing agreement or other means that a tool(s) is commercially available that is capable of accessing and retrieving the data stored in the EDR that are required by this part. The tool(s) shall be commercially available not later than 90 days after the first sale of the motor vehicle for purposes other than resale.

PART 564—REPLACEABLE LIGHT SOURCE INFORMATION (Eff. until 12-1-09)

Sec.

AUTHORITY: 49 U.S.C. 322, 30111, 30115, 30117, 30166; delegation of authority at 49 CFR 1.50.

SOURCE: 58 FR 3860, Jan. 12, 1993, unless otherwise noted.

EFFECTIVE DATE NOTE: At 72 FR 68266, Dec. 4, 2007, part 564 was revised, effective Sept. 1, 2008. At 73 FR 50730, Aug. 28, 2008, the revision was delayed until Dec. 1, 2009. For the convenience of the user, the new part 564 follows the text of this part.

§564.1 Scope.

This part requires the submission of dimensional, electrical specification, and marking/designation information, as specified in appendix A and appendix B of this part, for original equipment replaceable light sources used in motor vehicle headlighting systems.

[61 FR 20500, May 7, 1996]

§564.2 Purposes.

The purposes of this part are achieved through its Appendices:

(a) The purposes of appendix A of this part are to ensure